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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/553,176

10/13/2005

Tetsuya Iida

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02/18/2009

DVA/PEC-IPD

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LONG BEACH, CA 90810

EXAMINER

ANGEBRANNDT, MARTIN J

ART UNIT

PAPER NUMBER

1795

MAIL DATE

DELIVERY MODE

02/18/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/553,176	Applicant(s) IIDA ET AL.	
	Examiner Martin J. Angebrannt	Art Unit 1795	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/13/05</u> . | 6) <input type="checkbox"/> Other: _____ |

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1. The references cited on the PTO-1449 were not supplied and this is why they have been crossed out. The examiner has applied English equivalents of these.
2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Katsumura et al. '840.

The formation of coatings upon the resist which are Cu alloys, such as Cu alloyed with Ti or Ag is disclosed and then nickel is electroformed over this and the combination peeled from the resist film. [0057,0087]

With regard to claims 2 and 3, the claims require that the Ni or Ag alloy be used.

5. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Katsumura et al. '625.

The formation of coatings upon the resist which are Ag alloys, such as Ag alloyed with Cu or Au is disclosed and then nickel is electroformed over this and the combination peeled from the resist film. [0056,0061-0062]

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With regard to claims 1 and 3, the claims require that the Ni or Cu alloy be used.

6. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Rokuro JP 61-077152.

The formation of coatings upon the resist which are Ni--Cr alloy (4') and then another metal (5) is electroformed over this and the combination peeled from the resist film. [0056,0061-0062]

With regard to claims 4 and 3, the claims require that the Cu or Ag alloy be used.

7. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Hattori et al. JP 60-174891.

Hattori et al. JP 60-174891 teaches a nickel matrix (1), with a surface oxidized layer (2), A Ni-P layer (3), an electroformed Ni body (4), where the peeling occurs between the layers 2 and 3. (see figures, abstract and examples 2 which forms the Ni-P layer (pages 2/ bottom columns.)

8. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Katsumura et al. '444.

The formation of coatings upon the resist which are Ni-Cu/Au alloys and then another nickel is electroformed over this and the combination peeled from the resist film. [0038-0040,0053]

With regard to claims 4 and 3, the claims require that the Cu or Ag alloy be used.

9. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Yukumoto et al. '122.

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The formation of coatings upon the resist which are Ni-P alloys and then another nickel is electroformed over this and the combination peeled from the resist film. [0090-0093]

10. Claims 1-3 and 5-6 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Okino JP 57-082236.

The formation of coatings upon the a Master with Cu alloys, and then nickel is electroformed over this and the combination peeled from the resist film. (abstract and figures)

With regard to claims 2 and 3, the claims require that the Ni or Ag alloy be used.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin J. Angebrannt whose telephone number is 571-272-1378. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Martin J Angebranndt/
Primary Examiner, Art Unit 1795

Martin J Angebranndt
Primary Examiner
Art Unit 1795

2/13/09